

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/090787 A1

(51) International Patent Classification⁷: **F04B 33/00**

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/GB2004/001172

(22) International Filing Date: 19 March 2004 (19.03.2004)

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(71) Applicant and

(72) Inventor: ROBINSON, Philip, Edward [GB/GB]; West Oak Lodge, The Barn, Woolton Hill, Newbury, Berkshire RG20 9UX (GB).

(74) Agents: CRAWFORD, Andrew, B. et al.; A.A. Thornton & Co., 235 High Holborn, London WC1V 7LE (GB).

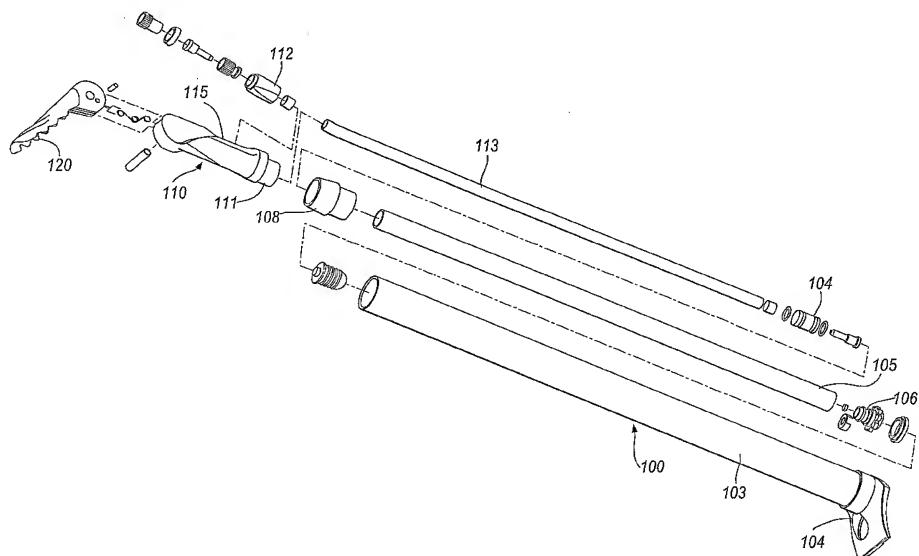
Published:

— with international search report

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PUMP



(57) **Abstract:** A manually operated pump for a bicycle comprises two cylindrical members with a first cylindrical member slidable within a second cylindrical member. One end of the first cylindrical member is provided with a fitting to receive a saddle while one end of said second cylindrical member is provided with a foot stand assembly which comprises a foldable foot stand and a retractable air hose. The pump is designed to be received in the seat post of the bicycle frame and the two cylindrical members are arranged to be releasably connected together in a closed position.

WO 2005/090787 A1